L Number	Hits	Search Text	DB	Time stamp
1	437	(62/324.6).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 12:49
2	1	((62/324.6).CCLS.) and (intermediate near cooling)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 14:04
3	23	((62/324.6).CCLS.) and carbon	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 12:53
4	6	(((62/324.6).CCLS.) and carbon) and rotary	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 12:53
5	10	((62/324.6).CCLS.) and (carbon near dioxide)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 12:53
6	2	(((62/324.6).CCLS.) and (carbon near dioxide)) and rotary	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 13:41
7	43	((62/324.6).CCLS.) and rotary	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 13:42
8	0	((62/324.6).CCLS.) and (rotary near compression)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 13:42
9	19	((62/324.6).CCLS.) and (rotary near compres$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 13:44
10	97	((62/324.6).CCLS.) and (passage same compres$4) and cooling	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 14:04
11	32	(((62/324.6).CCLS.) and (passage same compres$4) and cooling) and intermediate	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 13:45
12	6	((62/324.6).CCLS.) and (passage same compres$4) and (compressor near cooling)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 13:47

17	71	(418/7,8).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 14:04
18	0	((418/7,8).CCLS.) and (intermediate near cooling)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 14:04
19	4	((418/7,8).CCLS.) and cooling	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/23 14:04
22	7	4009573.URPN.	USPAT	2004/01/23 14:06

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TITLE: HEAT PUMP TYPE AIR CONDITIONER

PUBN-DATE: November 5, 1992

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APPL-NO: JP03076605

APPL-DATE: April 10, 1991

INT-CL (IPC): F25B001/10, F24F011/02

US-CL-CURRENT: 62/324.6

ABSTRACT:

PURPOSE: To prevent damage of a compressor device caused by compression of liquid at the second compression part in a two-stage compression type refrigeration cycle.

CONSTITUTION: A compression device 1 comprised of the first compression part 1a and the second compression part 1b, a condensor 2, the first expansion valve 3a, a vapor-liquid separator 4, the second expansion valve 3b and an evaporator 5 are connected in an annular form to construct a two-stage compression type refrigeration cycle. A bypassing pipe 6 having the vapor-liquid separator 4,

the first compression part 1a and a connection pipe passage for the second compression part 1b is provided with a two-way valve 7. The two-way valve 7 is opened or closed and a presence of intermediate cooling of the two-stage compression type refrigeration cycle and a non-presence of the intermediate cooling of the two-stage compression type refrigeration cycle are changed over.

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